



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/722,230	11/25/2003	Eugene F. Giszczynski	11538US02	6692
7590 06/08/2007				
Cheryl F. Benes Tellabs Operations, Inc. 1415 West Diehl Road, MS 16 Naperville, IL 60563				
			EXAMINER	
			ZHU, BO HUI ALVIN	
			ART UNIT	PAPER NUMBER
			2616	
			MAIL DATE	DELIVERY MODE
			06/08/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/722,230

Applicant(s)

GISZCZYNSKI ET AL.

Examiner

Bo Hui A. Zhu

Art Unit

2616

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED. (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 25 November 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 18-38 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 18-38 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 25 November 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 18, 19, 21 – 26, 28 – 32 and 34 - 38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Huey et al. (US 5,467,349).

(1) with regard to claims 18 and 31:

Huey et al. discloses a method for monitoring a virtual path (see column 6, lines 23 – 49 and Fig. 7) comprising: originating at least one of operations, administrative and maintenance calls (virtual channel between 176 and 172 on Fig. 7; column 6, lines 32 – 38) at a source network element (176 on Fig. 7) on the virtual path (178 on Fig. 7); and monitoring for the at least one of the operations, administrative and maintenance calls at the source network element on the virtual path (monitoring circuit at 176; column 6, lines 46 – 49).

Huey et al. does not disclose the method being applied in a ring network.

Huey et al. however discloses in admitted prior art (Fig. 1) a ring network (10 on Fig. 1) that comprises ATM switches.

It would have been desirable to apply the method disclosed by Huey et al. in a ring network because it would eliminate the possibility of having a single point of failure in the network. Therefore, it would have been obvious to one of ordinary skill in the art

Art Unit: 2616

at the time of the invention to implement the method as taught by Huey et al. into a ring network so as to eliminate the possibility of having single point of failure in the network.

(2) with regard to claims 19, 26 and 32:

Huey et al. further discloses originating a second at least one of operations, administrative and maintenance calls (virtual channel between 176 and 174 on Fig. 7) at an intermediate network element (174 on Fig. 7; with the add/drop method of Huey et al, 174 can add or drop a virtual circuit by itself) on the virtual path (178 on Fig. 7); and monitoring for the second at least one of the operations, administrative and maintenance calls at the source network element on the virtual path (monitoring circuit at 176, column 6, lines 46 – 49).

It would have been desirable to apply the method disclosed by Huey et al. in a ring network because it would eliminate the possibility of having a single point of failure in the network. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to implement the method as taught by Huey et al. into a ring network so as to eliminate the possibility of having single point of failure in the network

(3) with regard to claims 21, 28 and 34:

Huey et al. further discloses that the virtual path is unidirectional (see column 2, lines 39 - 40).

(4) with regard to claims 22, 24 and 29:

Huey et al. further discloses that assigning the at least one of operations, administrative and maintenance calls and the second at least one of operations, administrative and maintenance calls, to the virtual path (virtual path 178 is used for transmitting cells).

It would have been desirable to apply the method disclosed by Huey et al. in a ring network because it would eliminate the possibility of having a single point of failure in the network. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to implement the method as taught by Huey et al. into a ring network so as to eliminate the possibility of having single point of failure in the network

(5) with regard to claims 23, 25, 30, 36 and 38:

Huey et al. discloses in the add/drop method checking cells arrived at the source network element to find the at least one of operations, administrative and maintenance calls (see column 6, line 50 – column 7, line 14 and Fig. 8, which discloses the process for checking arrival cells that belong to different connections)

It would have been desirable to apply the method disclosed by Huey et al. in a ring network because it would eliminate the possibility of having a single point of failure in the network. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to implement the method as taught by Huey et al. into a ring network so as to eliminate the possibility of having single point of failure in the network

(6) with regard to claims 35 and 37:

Huey et al. discloses a ring network (10 in Fig. 1) and in the add/drop method discloses using a single virtual path (178 on Fig. 7) to connect all ATM switches in a network (172, 174, 176 on Fig. 7); and the intermediate network element (178 on Fig. 7) is able to add virtual connection to the virtual path that terminates at the source network element (176 on Fig. 7).

It would have been desirable to apply the method disclosed by Huey et al. in a ring network because it would eliminate the possibility of having a single point of failure

Art Unit: 2616

in the network. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to implement the method as taught by Huey et al. into a ring network so as to eliminate the possibility of having single point of failure in the network

3. Claims 20, 27 and 33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Huey et al. (US 5,467,349) in view of Cappellari et al. (US 5,557,611).

(1) with regard to claims 20, 27 and 33:

Huey et al. does not disclose performing statistical multiplexing on the virtual path.

Cappellari et al. teaches using statistical multiplexing (see column 4, lines 37 – 43).

It would have been desirable to use statistical multiplexing technique because it would provide a saving on the bandwidth assigned to the virtual paths. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to use statistical multiplexing method as taught by Cappellari et al. in the system of Huey et al. so as to improve bandwidth efficiency.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bo Hui A. Zhu whose telephone number is (571)270-1086. The examiner can normally be reached on Mon-Thur 10am-6pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hassan Kizou can be reached on (571)272-3088. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2616

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

BZ
May 23, 2007



HASSAN KIZOU
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600